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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/152,659	09/14/1998	DAVID J. CORISIS	ROUND 3.0-284 DIV II	9522
58907 ROUND	7590 09/29/201	0	EXAMINER	
	TID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	CHERVINSKY, BORIS LEO		
600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			ART UNIT	PAPER NUMBER
			2835	
			MAIL DATE	DELIVERY MODE
			09/29/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	09/152,659	CORISIS ET AL.		
Office Action Summary	Examiner	Art Unit		
	Boris L. Chervinsky	2835		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
Responsive to communication(s) filed on 10 S This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 75-87 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 75-87 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examination The drawing(s) filed on 10 September 2010 is/Applicant may not request that any objection to the	awn from consideration. or election requirement. er. /are: a)⊠ accepted or b)⊡ objec	•		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ction is required if the drawing(s) is ob	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 75-80, 87 are rejected under 35 U.S.C. 102(b) as being anticipated by Chiu.

Chiu discloses an electronic device, comprising: a plurality of integrated circuit packages 10; a contact surface 32, 33 electrically connected to each of said packages; and a support 31 extending from the contact surface and arranged to engage each of said packages at a point spaced above said surface to prevent movement of said packages relative to said surface; each of said packages is contacted on its upper end; the support 31 includes a pair of surfaces 16 which engage each of said packages on two opposed surfaces, sandwiching said packages; the support is resiliently biased against the sides of said packages (see Fig. 10); the support 31 contacts the side edges of said packages 10; the support 31 is made of a heat conducting material; with respect to claim 87, Chiu discloses the packages and the support are extending from the surface by two different distances and the support contacts the packages by the distance that is less than the other two distances.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 81, 82, 84, 85, 86 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu in view of Cipolla et al.

Chiu discloses the claimed invention except resilient or foam material. Cipolla (see abstract) disclose the resilient or foam material used to engage modules. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide the resilient material or foam as disclosed by Cipolla in the device disclosed by Chiu in order to provide reliable contact and thermal conduction. It must be noted that the foam with dispersed with conductive particles is well known and widely used as well as adhesive to attach the foam articles to different surfaces therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to use such materials, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

5. Claim 83 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chiu in view of Jeffries et al.

Chiu discloses the claimed invention except extending tabs/notch arrangement having tab extending from the support and the notch is disposed in the module. Jeffries

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discloses the notch in the support. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide tab extending from the support and engaging the notch in the module as one of the choices to provide reliable structural contact since and is well known in the art and it appears to be not critical for the invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Boris L. Chervinsky whose telephone number is 571-272-2039. The examiner can normally be reached on 7-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayprakash N. Gandhi can be reached on 571-272-3740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Boris L. Chervinsky/ Primary Examiner, Art Unit 2835